

CATGAAGGTTCTCTCTGCTCTGCTTCTCTTTCTTCTGTCTCAGTGCGAGCTACTGAGCAACCCGAGGTCTGCTACTG
AGCATCCCAGCATGGAGGCAGCCCTGACCGGGCCCAACGCCCTCTCGCACTTCTGGGCCAACTACACTTTTCTCTGAC
TGGCAGAACTTCTGTGGGCAGGAGACGTTATGGGGCCGAGTCCCAGAACCCACGGTGAAAGCACTGCTCATCGTGGC
CTACTCATTCACCATCGTCTTCTCGCTCTTTCGGTAATGTCTTGGTCTGTTCATGTTCATCTTCAAGAACCAGCGCATGC
ACTCGGCCACCAGCCTCTTTCATTGTCAACCTGGCAGTGGCGGACATCATGATCACATTGCTCAACACGCCCTTCAC
TTGGTCCGCTTTTGTGAACAGCACATGGGTGTTTGGGAAGGGCATGTGTTCATGTTCAGTTCGCTTTTGTCTCAGTACTGTT
TCTACATGTCTCAGCACTGACTGTGACAGTATCGCAGTGGACCGCCACCAGGTCATCATGCACTGAGGCCTC
GGATCTCCATCACCAAGGGTGTTCATATATATTGCTGTTCATCTGGGTTCATGGCTACCTTCTTCTCTCTGCCACATGCC
ATCTGCCAGAACTGTTTACCTTCAAGTACAGTGAGGACATTGTGCGCTCCCTCTGCCTGCCGGACTTCCCGGAGCC
AGCTGACCTCTTCTGGAAGTATCTGGACCTGGCCACCTTTCATCCTGCTCTACCTACTTCCACTCTTTCATTATCTCAG
TGGCCTATGCTCGTGTGGCCAAGAAGCTGTGGCTCTGTAAACACCATTGGCGACGTGACCACAGAGCAGTACCTCGCC
CTGCGACGCAAGAAGAAGACCACCGTGAAGATGCTGGTGTCTTGTGGTAGTCTCTTTGCCCTCTGCTGGTTCCTCT
CAACTGCTATGTCTCTCTCTTGTCCAGCAAGGCCATCCACACCAACAATGCCCTCTACTTTGCCTTCCACTGGTTTG
CCATGAGCAGTACTTGTATATAACCCCTTCATCTACTGCTGGCTCAATGAGAATCTTAGGGTTGAGCTTAAGGCATTG
CTGAGCATGTGCCAAAGGCCACCCAAGCCGAGGAAGACAGGCTACCTCTCCCTTCTTCCAGGTTGGCATG
GACAGAGAAGAGCCATGGTTCGGAGGGCTCCACTACCTAATCACCACTTGCCCTCTTCTCCAGATCCAGTCTGGGAAGA
CAGATCTGTTCATCTGTGGAACCCGTTGTGGCCATGAGTTAGGGAAAGCTGGAAGTTGGTGGGGGAGGGTTCTTTTCCT
CTCACAAATTGACCAGACACTAACAGAGTTGGAAAGTAACACAGAAGCAGTGAGATGCTTGGGTTTCTAGGAACCTGT
CCAGCCCCATCTGATTGCAAACTTTCTAGAAGATGCCATGAGGTGGTGTGTGTAGATCTTTGAGCAAGAGCTCTGG
AAACCACCTCAGCTTCAACAGAGGCTGGTCCAGTCAACCACCTCCAAATTGTGTAGCATCTGCCACCTTGCCCTTCCT
ACTGCTGAGCAACCACAGGGGGACTTGAGCCATACTATTGGTGGGCTGCCCCACATGCTCAGAAAAGAACAGGCAC
AAAGGCTTTCTGAAGTCATTGGAACAGGAATAATCACACAGCTTCAGTGACCTTGGCTCTATCCATGACCAGACAG
ACCCATTTTGGCTTCTTAAAAAACAAGAGAAATAGTATTTGCCACTTTGAAAGTTCAGAAAAGTAAAGAAATGAT
TCAGCCCTCAATTTGTAAAAAAGAAAAAAGAAAAAAGAAAAAGTAAATGCTGTA
ACATTTATCTGTAGCTTTTGCCCTTCTGTGTGTGTACATTTGTACTTTTAAATCCTGAACTACACGTGTCCATGTAGAT
TGTAATAATTAGCAAGAACTGGAATATATCAGAGTATTATTGAATTC (SEQ ID NO:1)

MKVPPVLLLLFLLSSVRATEQPQVVTEHPSMEAALTGPNASSHFWANYTFSDWQNFGRRRYGAESQNPTVKALLIVA
YSFTIVFSLFGNVLVCHVIFKNQRMHSATSLFIVNLAVADIMITLNTPTLVRVFNSTWVFGKGMCHVSRFAQYCS
LHVSALTLTAIVDRHQVIMHPLKPRISITKGVIYIAVIWVMATFFSLPHAICQKLFTFKYSEDIVRSLCLPDFPEP
ADLFWKYLDLATFILLYLLPLFIIISVAYARVAKKLLWCNTIGDVTTEQYALRRKKKTIVKMLVLVVVLFALCWFP
NCYVLLSSKAIHTNNALYFAFHVAMSSTCNPYFIYCVLWENFRVELKALLSMCQRPPKPQEDRLPSPVSRFAV
TEKSHGRRALPHNNHLPSSQIQSGKTDLSVSPEVVMAMS (SEQ ID NO:2)

FIGURE 1



Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

GGGGTGGCAGTCGGCACCATCAGGCTCCCTTGGCGTTTCGGAGTTTCTCTGTGGTCCCG
ACTCTCCGGAGGATCTCGGTTGTCTCCCAAGTCGGAACCTGGCACGGTCCAGGTTCACTC
GGAGGTCCGGGCTTCCCTCTGTGCCCCGTGCCCCCTCGCTCCAGGCTCCCTCTGTGGTGTG
GACTCCCTCTAGCCCCGTGCGCTCAGCCCCCTCGCACCCAGCCTCCAGGCACAGAGCCCGGC
AGGGAGCTCAGCCCCTTGTGCCTAGAGCTGCAGTGGCTGGACATGAAGGTTCCCTCTGTCC
TGCTTCTCTTTCTTCTGTCTCAGTGCGAGCTACTGAGCAACCGCAGGTCGTCACTGAGC
ATCCCAGCATGGAGGCAGCCCTGACCGGGCCCAACGCCTCCTCGCACTTCTGGGCCAACT
ACACTTTCTCTGACTGGCAGAACTTCGTGGGCAGGAGACGTTATGGGGCCGAGTCCCAGA
ACCCACCGGTGAAAGCACTGCTCATCGTGGCCCTACTCATTCACCATCGTCTTCTCGCTCT
TCGGTAATGTCCTGGTCTGTTCATGTTCATCTTCAAGAACCAGCGCATGCACCTCGGCCACCA
GCCTCTTCATTGTCAACCTGGCAGTGGCGGACATCATGATCACATTGCTCAACACGCCCT
TCACCTTGGTCCGCTTTGTGAACAGCACATGGGTGTTTGGGAAGGGCATGTGTTCATGTCA
GTGCTTTGCTCAGTACTGTTCCTACATGTCTCAGCACTGACTCTGACAGCTATCGCAG
TGGACCGCCACCAGTCATCATGCATCCACTGAAGCCTCGGATCTCCATCACCAAGGCTGT
TCAATATATATTGCTGTCTCTGGGTCTATGGCTACCTTCTTCTCTCTGCCACATGCCATCT
GCCAGAACTGTTTACCTTCAAGTACAGTGAAGACATTGTGCGCTCCCTCTGCCTGCCGG
ACTTCCCGGAGCCAGCTGACCTCTTCTGGAAGTATCTGGACCTGGCCACCTTCATCCTGC
TCTACCTACTTCCACTCTTCATTATCTCAGTGGCCTATGCTCGTGTGGCCCAAGAAGCTGT
GGCTCTGTAAACACCATTTGGCGACGTGACCACAGAGCAGTACCTCGCCCTGCGACGCAAGA
AGAAGACCACCGTGAAGATGCTGGTGTCTGTGGTAGTCTCTTTGCCCTCTGCTGGTTCC
CTCTCAACTGCTATGTCTCTCTTTGTCCAGCAAGGCCATCCACACCAACAATGCCCTCT
ACTTTGCCCTTCCACTGGTTCGTCATGAGCAGTACTTGTATAACCCCTTCATCTACTGCT
GGCTCAATGAGAACTTTAGGGTTGAGCTTAAGGCATTGCTGAGCATGTGCCAAAGGCCAC
CCAAGCCGCGAGGAAGACAGGCTACCCCTCCCGAGTTCCTTCCTTCAGGGTGGCATGGACAG
AGAAGAGCCATGGTCCGAGGGCTCCACTACCTAATCACCACTTGCCCTCTTCCCAGATCC
AGTCTGGGAAGACAGATCTGTTCATCTGTGGAACCCGTTGTGGCCATGAGTTAGGGAAAGC
TGGAAGTTGGTGGGGGAGGGTTCTTTCTCTCACAAATTGACCAGACACTAACAGAGTTGG
AAAGTAACACAGAAGCAGTGAGATGCTTGGGTTCTTAGGAACCTGTCCAGCCCCATCTGA
TTTGCAAACTTTCTAGAAGATGCCATGAGGTGGTGTGTGTAGATCTTTGAGCAAGAGCTC
TGGAAACCACCTCAGCTTCAACAGAGGCTGGTCCAGTCAACCACCTCCAATTTGTGTAGCA
TCTGCCACCTTGCCCTTCTACTGCTGAGCAACCAAGGGGGACTTGAGCCATGATTTG
GTGGGCTTGCCCCACATGCTCAGAAAAGAACAGGCACAAAGGCTTTCTGAAGTCATTGGA
ACAGGAATAATCACACAGCTTCAGTGACCTTGGCTCTATCCATGACCAGACAGGACCCAT
TTTGGCTTCTTAAAAACAAAGAGAAATAGTATTGCCACTTTGAAAAGTTCAGAAAAGTA
AAGAAATGAGTTCAGCCCTCAATTTGTAAAAAAGGAAAAAAGAAAAAAGAAAAAAG
AAAGAAAAAAGCCTGTAAATATGCTGTAAATTTATCTGTAGCTTTGCCTTCTGTGTGTGT
ACATTTGTACTTTTAAATCCTGAACACACGTGTCCATGTAGATTGTAATAATTAGCAA
GAAACTGGAATATATCAGAGTATTATTGAATTC

FIGURE 2A



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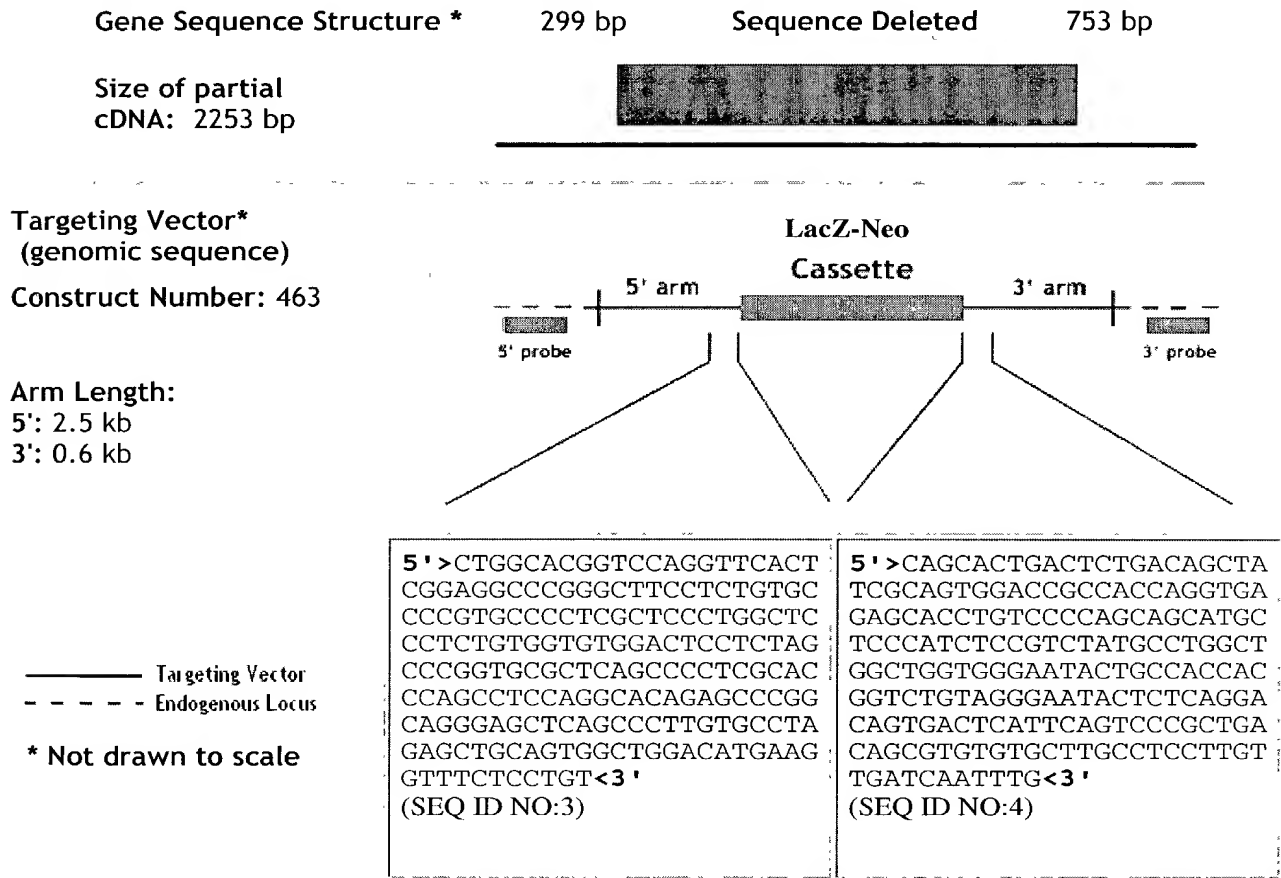


FIGURE 2B